

## NEXEDGE®

# NX-920G

NEXEDGE® 800MHz Digital & Analog Mobile Radio

**NXDN®** **MPT-1327** **FleetSync®**

### GENERAL FEATURES

- 15W (806-870 MHz) Model
- 260 CH-GID / 128 Zones
- 10 Character Alphanumeric Aliases
- Backlit LCD & Keys
- Function/Status LCD Icons
- Transmit/Busy/Call Alert/Warn LED
- Blue Function/Status LED
- On/Off Power Control
- 4 Up/Down Selectors
- 6 Front PF Keys
- Emergency/AUX Key
- 4W Speaker Audio
- Zone / CH Number Voice Announcement
- DB-15 Accessory Connector
- 6 Programmable AUX I/Os
- KPG-141D Windows® FPU
- Flash Firmware Upgrading
- MIL-STD-810 C/D/E/F/G
- IP-54 Water & Dust Intrusion
- PC Serial Interface
- SDM Manual Input¹
- Transparent Data Mode¹
- Built-in GPS Receiver

### DIGITAL GENERAL

- NXDN® Digital Air Interface
- AMBE+2™ VOCODER
- 6.25 & 12.5 kHz Channels
- Over-the-Air Alias
- Over-the-Air Programming²
- Paging Call
- Emergency Call
- All Group Call
- Status Messaging¹
- Remote Stun/Kill¹
- Remote Check¹
- Short & Long Data Messages¹
- GPS Location with Voice¹
- NXDN® Scrambler Included

### DIGITAL CONVENTIONAL MODE

- 64 Radio Access Numbers (RAN)
- Individual & Group Selective Call
- Mixed FM/Digital Operation
- Conventional IP Networks
- Site Roaming

### DIGITAL TRUNKING MODE

- Individual Private Call
- Group Call & Broadcast Call
- Telephone Interconnect³
- Transmission Trunked Mode³
- Message Trunked Mode³
- Call Queuing with Priority³
- Late Entry (UID & GID)³
- 4 Priority Monitor ID's³
- Remote Group Add¹
- Failsoft Mode

### MULTI-SITE IP NETWORKS COMPATIBLE

- 60,000 GIDs / UIDs
- Wide Area Group Call
- Auto Roaming Registration
- Group Registration

### MULTI-SYSTEM COMPATIBLE

- 8 Trunked Networks⁴
- UID Lists for each network

### SCAN

- Single Zone / Multi-Zone / List Scan
- Dual Priority Scan (Conventional)

### FM MODES - GENERAL

- 25 & 12.5 kHz Channels
- NPSPAC Channels
- Conventional & LTR® or MPT Zones
- FleetSync®/II, MDC-1200, DTMF
- QT / DQT (Conventional Zones Only)
- Voice Inversion Scrambler (16 Codes)

### MPT ZONES\*

- Single-Site Trunking
- Multi-Site Network Trunking
- 8 Network Capacity
- Network Roaming / Registration

### FleetSync®/II (FM)

- PTT ID ANI / Caller ID
- Selective / Group Call
- Emergency, Status & Text Messages¹

### MDC-1200

- PTT ID ANI / Caller ID
- Emergency, Radio Check & Inhibit

\* Optional feature



## Options

### KMC-35

Microphone  
(Supplied)



### KES-3

External Speaker



### KLF-2

Line Filter



### KCT-60

DB 15-to-15 Pin  
Molex Adaptor Cable



### KMC-36

Microphone  
with Keypad



### KES-5

External Speaker  
(requires KCT-60 option)



### KCT-18

Ignition Sense Cable  
(requires KCT-60 option)



### KRA-40G

GPS Antenna



### KMC-9C

Desktop Microphone



### KMB-10

Key Lock Adapter



### KCT-36\*\*\*

3m Extension Cable  
(for KCT-60)



## Main Specifications

All accessories and options may not be available in all markets.  
Contact an authorized Kenwood dealer for details and complete list of all accessories and options.

		NX-920G
<b>GENERAL</b>		
<b>Frequency Range</b>	Receive Transmit	851-870MHz 806 - 825 / 851 - 870 MHz
<b>Number of Channels</b>		260
<b>Zones</b>		128
<b>Max. Channels per Zone</b>		250
<b>Channel Spacing</b>	Analog Digital	12.5 / 25 kHz 6.25 / 12.5 kHz
<b>Operating Voltage</b>		13.6 V DC $\pm$ 15%
<b>Operating Temperature Range</b>		-22° F to +140° F (-30° C to +60° C)
<b>Frequency Stability</b>		$\pm$ 1.0 ppm
<b>Antenna Impedance</b>		50 $\Omega$
<b>Dimensions (W x H x D)</b>	Projections not included	6.30 x 1.69 x 5.35 in (160 x 43 x 136 mm)
<b>Weight (net)</b>		2.87 lb (1.3 kg)
<b>FCC ID</b>		K44458300
<b>IC Certification</b>		282F-458300

Analog measurements made per TIA/EIA 603 and specifications shown are typical.  
Specifications are subject to change without notice, due to advancements in technology.

FleetSync® is a registered trademark of JVCKENWOOD Corporation.  
LTR® is a registered trademark of Transcrypt International.  
AMBE+2™ is a trademark of Digital Voice Systems Inc.  
Windows® is a registered trademark of Microsoft Corporation.  
NXDN® is a trademark of JVCKENWOOD Corporation and Icom Inc.  
NEXEDGE® is a trademark of JVCKENWOOD Corporation.

		NX-920G
<b>RECEIVER</b>		
<b>Sensitivity</b>	Digital @ 6.25 kHz (3% BER) Digital @ 12.5 kHz (3% BER) Analog (12 dB SINAD)	0.20 $\mu$ V 0.28 $\mu$ V 0.25 $\mu$ V
<b>Selectivity</b>	Analog @ 25 kHz Analog @ 12.5 kHz	75 dB 65 dB
<b>Intermodulation</b>	Analog	70 dB ( $\pm$ 50, 100 kHz)
<b>Spurious Response</b>	Analog	75 dB
<b>Audio Distortion</b>		Less than 3%
<b>Audio Output</b>		4 W / 4 $\Omega$
<b>TRANSMITTER</b>		
<b>RF Power Output</b>		5 - 15 W
<b>Spurious Response</b>		70 dB
<b>FM Hum &amp; Noise</b>	Analog @ 25 kHz Analog @ 12.5 kHz	45 dB 40 dB
<b>Audio Distortion</b>		Less than 3%
<b>Modulation</b>		16K0F3E, 14K0F3E, 11K0F3E, 8K30F1E 8K30F1D, 8K30F7W, 4K00F1E, 4K00F1D, 4K00F7W, 4K00F2D
<b>GPS**</b>		
<b>TIFF (Time to First Fix) - Cold Start</b>		< 60 seconds
<b>TIFF (Time to First Fix) - Hot Start</b>		< 10 seconds
<b>Horizontal Accuracy</b>		< 10 meters

\*\* Accuracy specs are for long-term tracking (95th percentile values > 5 satellites visible at a nominal - 130 dBm signal strength)

\*\*\* Not available in the Canadian markets (US only). Please consult your authorized retailer for confirmed accessory listings in your region.

Footnotes from front:

<sup>1</sup> Require NX subscriber unit PC Serial Interface compatible software application  
(e.g. Kenwood AVL & Dispatch Messaging software) or hardware (e.g. console).

<sup>2</sup> Requires Kenwood OTAP Management software.

<sup>3</sup> These trunked features are primarily system programming and operational dependent.  
Priority Monitor also requires NX subscriber settings.

<sup>4</sup> Up to 8 different Trunked networks can be configured per radio (each in a zone)

## Applicable MIL-STD & IP

MIL Standard	MIL 810C Methods/Procedures	MIL 810D Methods/Procedures	MIL 810E Methods/Procedures	MIL 810F Methods/Procedures	MIL 810G Methods/Procedures
<b>Low Pressure</b>	500.1/Procedure I	500.2/Procedure I, II	500.3/Procedure I, II	500.4/Procedure I, II	500.5/Procedure I, II
<b>High Temperature</b>	501.1/Procedure I, II	501.2/Procedure I, II	501.3/Procedure I, II	501.4/Procedure I, II	501.5/Procedure I, II
<b>Low Temperature</b>	502.1/Procedure I	502.2/Procedure I, II	502.3/Procedure I, II	502.4/Procedure I, II	502.5/Procedure I, II
<b>Temperature Shock</b>	503.1/Procedure I	503.2/Procedure I	503.3/Procedure I	503.4/Procedure I, II	503.5/Procedure I
<b>Solar Radiation</b>	505.1/Procedure I	505.2/Procedure I	505.3/Procedure I	505.4/Procedure I	505.5/Procedure I
<b>Rain</b>	506.1/Procedure I, II	506.2/Procedure I, II	506.3/Procedure I, II	506.4/Procedure I, III	506.5/Procedure I, III
<b>Humidity</b>	507.1/Procedure I, II	507.2/Procedure II, III	507.3/Procedure II, III	507.4	507.5/Procedure II
<b>Salt Fog</b>	509.1/Procedure I	509.2/Procedure I	509.3/Procedure I	509.4	509.5
<b>Dust</b>	510.1/Procedure I	510.2/Procedure I	510.3/Procedure I	510.4/Procedure I, III	510.5/Procedure I
<b>Vibration</b>	514.2/Procedure VIII, X	514.3/Procedure I	514.4/Procedure I	514.5/Procedure I	514.6/Procedure I
<b>Shock</b>	516.2/Procedure I, II, V	516.3/Procedure I, IV	516.4/Procedure I, IV	516.5/Procedure I, IV	516.6/Procedure I, IV
<b>International Protection Standard</b>					
<b>Dust &amp; Water Protection</b>	IP54: Radio itself				

To meet MIL-810 and IP grade, Microphone & Cover for D-sub15 & SP connector have to be connected. (Do not use the KCT cable and/or SP cable.)

# KENWOOD

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